

#5

# SEQUENCE LISTING

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Hartig, Paul R.  
Branchek, Theresa

<120> DNA Encoding A Human Serotonin (5-HT2) Receptor and  
Uses Thereof

<130> 35997a3zy/JPW

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<141> 1998-09-02

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<170> PatentIn Ver. 2.1

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Lys Thr Tyr Arg Ser Ala Phe Ser Arg Tyr Ile Gln Cys Gln Tyr Lys		
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Lys Gln Asp Ala Lys Thr Thr Asp Asn Asp Cys Ser Met Val Ala Leu		
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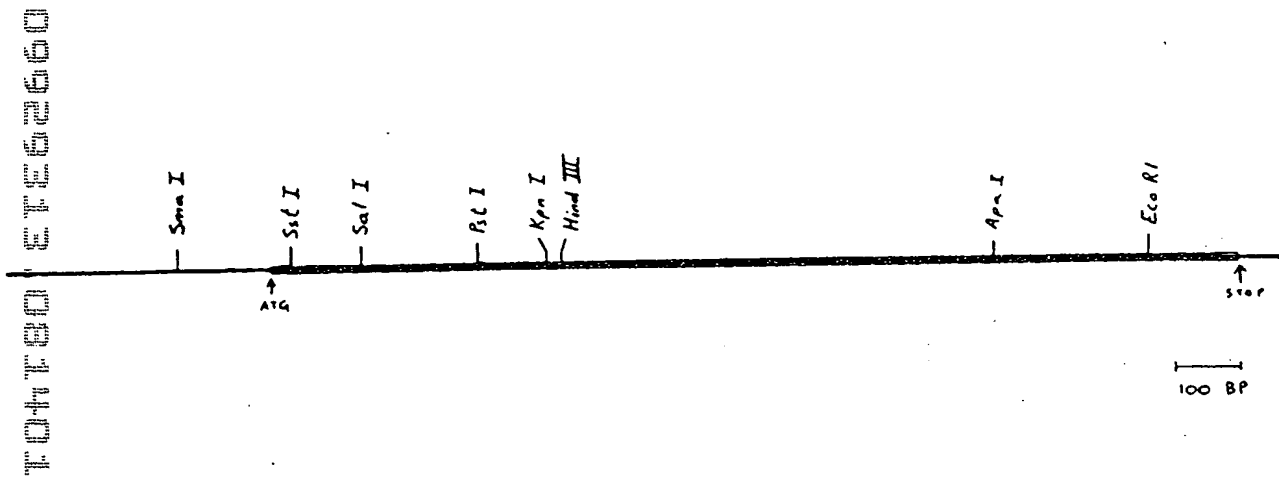
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Ala Glu Asn Arg Thr Asn Leu Ser Cys Glu Gly Tyr Leu Pro Pro Thr		
50	55	60
Cys Leu Ser Ile Leu His Leu Gln Glu Lys Asn Trp Ser Ala Leu Leu		
65	70	75
Thr Thr Val Val Ile Ile Leu Thr Ile Ala Gly Asn Ile Leu Val Ile		
85	90	95
Met Ala Val Ser Leu Glu Lys Lys Leu Gln Asn Ala Thr Asn Tyr Phe		
100	105	110
Leu Met Ser Leu Ala Ile Ala Asp Met Leu Leu Gly Phe Leu Val Met		
115	120	125
Pro Val Ser Met Leu Thr Ile Leu Tyr Gly Tyr Arg Trp Pro Leu Pro		
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Ser Lys Leu Cys Ala Ile Trp Ile Tyr Leu Asp Val Leu Phe Ser Thr		
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Ala Ser Ile Met His Leu Cys Ala Ile Ser Leu Asp Arg Tyr Val Ala		
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Ile Gln Asn Pro Ile His His Ser Arg Phe Asn Ser Arg Thr Lys Ala		
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Phe Leu Lys Ile Ile Ala Val Trp Thr Ile Ser Val Gly Ile Ser Met		
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Pro Ile Pro Val Phe Gly Leu Gln Asp Asp Ser Lys Val Phe Lys Glu		
210	215	220
Gly Ser Cys Leu Leu Ala Asp Asp Asn Phe Val Leu Ile Gly Ser Phe		
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Val Ala Phe Phe Ile Pro Leu Thr Ile Met Val Ile Thr Tyr Phe Leu		
245	250	255
Thr Ile Lys Ser Leu Gln Lys Glu Ala Thr Leu Cys Val Ser Asp Leu		
260	265	270
Ser Thr Arg Ala Lys Leu Ala Ser Phe Ser Phe Leu Pro Gln Ser Ser		

275	280	285
Leu Ser Ser Glu Lys Leu Phe Gln Arg Ser Ile His Arg Glu Pro Gly		
290	295	300
Ser Tyr Ala Gly Arg Arg Thr Met Gln Ser Ile Ser Asn Glu Gln Lys		
305	310	315
Ala Cys Lys Val Leu Gly Ile Val Phe Phe Leu Phe Val Val Met Trp		
325	330	335
Cys Pro Phe Phe Ile Thr Asn Ile Met Ala Val Ile Cys Lys Glu Ser		
340	345	350
Cys Asn Glu Asn Val Ile Gly Ala Leu Leu Asn Val Phe Val Trp Ile		
355	360	365
Gly Tyr Leu Ser Ser Ala Val Asn Pro Leu Val Tyr Thr Leu Phe Asn		
370	375	380
Lys Thr Tyr Arg Ser Ala Phe Ser Arg Tyr Ile Gln Cys Gln Tyr Lys		
385	390	395
Glu Asn Arg Lys Pro Leu Gln Leu Ile Leu Val Asn Thr Ile Pro Ala		
405	410	415
Leu Ala Tyr Lys Ser Ser Gln Leu Gln Val Gly Gln Lys Lys Asn Ser		
420	425	430
Gln Glu Asp Ala Glu Gln Thr Val Asp Asp Cys Ser Met Val Thr Leu		
435	440	445
Gly Lys Gln Gln Ser Glu Glu Asn Cys Thr Asp Asn Ile Glu Thr Val		
450	455	460
Asn Glu Lys Val Ser Cys Val		
465	470	





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FIGURE 2

Met Asp Ile Leu Cys Glu Glu Asn Thr Ser  
A T G C A T A T T C T T T G T G A A G A A A T A C T T C T  
10 20 30

Leu Ser Ser Thr Thr Asn Ser Leu Met Gln  
T T G A G C T C A A C T A C G A A C T C C C T A A T G C A A  
40 50 60

Leu Asn Asp Asp Thr Arg Leu Tyr Ser Asn  
T T A A A T G A T G A C A C C A G G C T C T A C A G T A A T  
70 80 90

Asp Phe Asn Ser Gly Glu Ala Asn Thr Ser  
G A C T T T A A C T C C G G A G A A G C T A A C A C T T C T  
100 110 120

Asp Ala Phe Asn Trp Thr Val Asp Ser Glu  
G A T G C A T T T A A C T G G A C A G T C G A C T C T G A A  
130 140 150

Asn Arg Thr Asn Leu Ser Cys Glu Gly Cys  
A A T C G A A C C A A C C T T T C C T G T G A A G G G T G C  
160 170 180

Leu Gln Glu Lys Asn Trp Ser Ala Leu Leu  
C T C C A G G A A A A A A C T G G T C T G C T T T A C T G  
220 230 240

Thr Ala Val Val Ile Ile Leu Thr Ile Ala  
A C A G C C G T A G T G A T T A T T C T A A C T A T T G C T  
250 260 270

Gly Asn Ile Leu Val Ile Met Ala Val Ser  
G G A A A C A T A C T C G T C A T C A T G G C A G T G T C C  
280 290 300

Leu Glu Lys Lys Leu Gln Asn Ala Thr Asn  
C T A G A G A A A A G C T G C A G A A T G C C A C C A A C  
310 320 330

Tyr Phe Leu Met Ser Leu Ala Ile Ala Asp  
T A T T T C C T G A T G T C A C T T G C C A T A G C T G A T  
340 350 360

Met    Leu    Leu    Gly    Phe    Leu    Val    Met    Pro    Val  
A T G C T G C T G G G T T T C C T T G T C A T G C C C G T G  
                370                    380                              390

Ser Met Leu Thr Ile Leu Tyr Gly Tyr Arg  
T C C A T G T T A A C C A T C C T G T A T G G G T A C C G G  
400 410 420

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FIGURE 2, CONT'D

Trp Pro Leu Pro Ser Lys Leu Cys Ala Val  
T G G C C T C T G C C G A G C A A G C T T T G T G C A G T C  
430 440 450

Trp Ile Tyr Leu Asp Val Leu Phe Ser Thr  
T G G A T T T A C C T G G A C G T G C T C T T C T C C A C G  
460 470 480

Ala Ser Ile Met His Leu Cys Ala Ile Ser  
~~G C C T C C A T C A T G C A C C T C T G C G C C A T C T C G~~  
490 500 510

Leu Asp Arg Tyr Val Ala Ile Gln Asn Pro  
T G G A C C G C T A C G T C G C C A T C C A G A A T C C C  
520 530 540

Ile His His Ser Arg Phe Asn Ser Arg Thr  
A T C C A C C A C A G C C G C T T C A A C T C C A G A A C T  
550 560 570

Lys Ala Phe Leu Lys Ile Ile Ala Val Trp  
A A G G C A T T T C T G A A A A T C A T T G C T G T T T G G  
580 590 600

Thr Ile Ser Val Gly Ile Ser Met Pro Ile  
A C C A T A T C A G T A G G T A T A T C C A T G C C A A T A  
610 620 630

Pro Val Phe Gly Leu Gln Asp Asp Ser Lys  
C C A G T C T T T G G G C T A C A G G A C G A T T C G A A G  
640 650 660

FIGURE 2, CONT'D

Val Phe Lys Glu Gly Ser Cys Leu Leu Ala  
 G T C T T T A A G G A G G G G A G T T G C T T A C T T G C C  
                     670                    680                    690

Asp Asp Asn Phe Val Leu Ile Gly Ser Phe  
 G A T G A T A A C T T T G T C C T G A T C G G C T C T T T T  
                     700                    710                    720

Val Ser Phe Phe Ile Pro Leu Thr Ile Met  
~~G T G T C A T T T T T C A T T C C C T T A A C C A T C A T G~~  
                     730                    740                    750

Val Ile Thr Tyr Phe Leu Thr Ile Lys Ser  
 G T G A T C A C C T A C T T T C T A A C T A T C A A G T C A  
                     760                    770                    780

Leu Gln Lys Glu Ala Thr Leu Cys Val Ser  
 T C C A G A A A G A A G C T A C T T T G T G T G T A A G T  
                     790                    800                    810

Asp Leu Gly Thr Arg Ala Lys Leu Ala Ser  
 G A T C T T G G C A C A C G G G C C A A A T T A G C T T C T  
                     820                    830                    840

Phe Ser Phe Leu Pro Gln Ser Ser Leu Ser  
 T T C A G C T T C C T C C C T C A G A G T T C T T T G T C T  
                     850                    860                    870

Ser Glu Lys Leu Phe Gln Arg Ser Ile His  
 T C A G A A A A G C T C T T C C A G C G G T C G A T C C A T  
                     880                    890                    900

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FIGURE 2, CONT'D

Arg Glu Pro Gly Ser Tyr Thr Gly Arg Arg  
A G G G A G C C A G G G T C C T A C A C A G G C A G G A G G  
910 920 930

Thr Met Gln Ser Ile Ser Asn Glu Gln Lys  
A C T A T G C A G T C C A T C A G C A A T G A G C A A A A G  
940 950 960

Ala Cys Lys Val Leu Gly Ile Val Phe Phe  
G C A T C C A A G G T G C T G G G C A T C G T C T T C T T C  
970 980 990

Leu Phe Val Val Met Trp Cys Pro Phe Phe  
C T G T T T G T G G T G A T G T G G T G C C C T T T C T T C  
1000 1010 1020

Ile Thr Asn Ile Met Ala Val Ile Cys Lys  
A T C A C A A A C A T C A T G G C C G T C A T C T G C A A A  
1030 1040 1050

Glu Ser Cys Asn Glu Asp Val Ile Gly Ala  
G A G T C C T G C A A T G A G G A T G T C A T T G G G G C C  
1060 1070 1080

Leu Leu Asn Val Phe Val Trp Ile Gly Tyr  
C T G C T C A A T G T G T T T G T T T G G A T C G G T T A T  
1090 1100 1110

Leu Ser Ser Ala Val Asn Pro Leu Val Tyr  
C T C T C T T C A G C A G T C A A C C C A C T A G T C T A C  
1120 1130 1140

## FIGURE 2, CONT'D

Thr	Leu	Phe	Asn	Lys	Thr	Tyr	Arg	Ser	Ala
A	C	A	C	T	G	T	T	C	A
A	C	A	A	C	A	A	G	A	C
C	T	A	T	A	G	G	T	C	A
G	C	C							
			1150			1160			1170

Phe	Ser	Arg	Tyr	Ile	Gln	Cys	Gln	Tyr	Lys
T	T	T	T	C	A	C	G	G	T
A	T	A	T	T	C	A	G	T	G
T	C	A	G	T	A	C	A	A	G
			1180			1190			1200

Glu	Asn	Lys	Lys	Pro	Leu	Gln	Leu	Ile	Leu
G	A	A	A	A	C	A	A	A	A
A	A	A	A	A	A	C	C	A	T
T	G	C	A	G	T	T	A	A	T
T	T	T	T	A					
			1210			1220			1230

Val	Asn	Thr	Ile	Pro	Ala	Leu	Ala	Tyr	Lys
G	T	G	A	A	C	A	C	A	A
T	A	C	C	G	G	C	T	T	T
G	G	C	C	T	A	C	A	A	G
			1240			1250			1260

Ser	Ser	Gln	Leu	Gln	Met	Gly	Gln	Lys	Lys
T	C	T	A	G	C	C	A	A	C
T	T	C	A	A	A	T	G	G	G
A	C	A	A	A	A	A	A	A	A
A	A	A	A	A	A	A	A	A	A
			1270			1280			1290

Asn	Ser	Lys	Gln	Asp	Ala	Lys	Thr	Thr	Asp
A	A	T	T	C	A	A	A	G	C
A	A	G	C	A	A	G	A	T	G
C	C	A	A	G	A	C	A	A	C
A	G	A	T						
			1300			1310			1320

Asn	Asp	Cys	Ser	Met	Val	Ala	Leu	Gly	Lys
A	A	T	G	A	C	T	G	C	T
C	A	A	T	G	G	T	T	G	C
T	C	T	A	G	G	A	A	A	G
			1330			1340			1350

Gln	His	Ser	Glu	Glu	Ala	Ser	Lys	Asp	Asn
C	A	G	C	A	T	T	C	T	G
A	A	G	A	G	A	G	G	C	T
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A	A	T							
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FIGURE 2, CONT'D

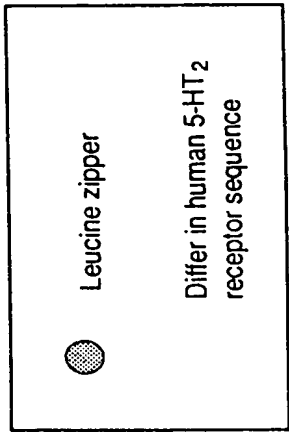
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Rat Serotonin 5-HT<sub>2</sub> Receptor

Differ in human 5-HT<sub>2</sub> receptor sequence



FIGURE 4

